

10/772017 RCE updated Search

## EAST Search History

| Ref # | Hits   | Search Query  | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|--------|---|---|------------------|---------|------------------|
| L1    | 3644   | recover\$3 same continuous\$4 same protect\$3   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/05/10 22:29 |
| L2    | 145585 | (a adj point adj in adj time) or PIT or APIT or (point adj in adj time)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/05/10 22:38 |
| L3    | 145585 | L2  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/05/10 22:31 |
| L4    | 2972   | (primary or second\$4 or master or backup or back-up or (back adj up) or mirror or redundan\$3 or double) with snapshot | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/05/10 22:35 |
| L5    | 2972   | L4  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/05/10 22:31 |
| L6    | 30     | 1 same 2  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/05/10 22:31 |
| L7    | 4      | 6 same 4 same snapshot  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/05/10 22:32 |
| L8    | 0      | (earlier adj point adj in adj time) same 6 same 4   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/05/10 22:36 |

## EAST Search History

|     |       |   |   |    |    |                  |
|-----|-------|---|---|----|----|------------------|
| L9  | 0     | (earlier adj point adj in adj time) and 6 and 4 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/10 22:36 |
| L10 | 576   | (714/13).ccls.                                  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON | 2007/05/10 22:37 |
| L11 | 707   | (714/11).ccls.                                  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON | 2007/05/10 22:37 |
| L12 | 654   | (714/2).ccls.                                   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON | 2007/05/10 22:37 |
| L13 | 1044  | (714/5).ccls.                                   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON | 2007/05/10 22:37 |
| L14 | 479   | (714/8).ccls.                                   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON | 2007/05/10 22:37 |
| L15 | 1169  | (707/202).ccls.                                 | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON | 2007/05/10 22:38 |
| L16 | 4     | previous adj point adj in adj time              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/10 22:39 |
| S1  | 10970 | recover\$4 near4 continuous\$4                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/03 11:07 |
| S2  | 919   | (714/2).ccls.                                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/03 11:23 |
| S3  | 501   | (714/13).ccls.                                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/10 22:36 |

## EAST Search History

|     |        |   |   |    |    |                  |
|-----|--------|---|---|----|----|------------------|
| S5  | 2394   | (primary or second\$4 or master or backup or back-up or (back adj up) or mirror or redundan\$3 or double) with snapshot | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/06 15:36 |
| S6  | 138486 | (a adj point adj in adj time) or PIT or APIT or (point adj in adj time)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/05 06:54 |
| S7  | 1      | S1 same S5 same S6  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/05 06:54 |
| S8  | 4      | S1 and S5 and S6  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/05 07:24 |
| S9  | 54     | S5 and S6   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/05 07:24 |
| S10 | 20     | S9 and recover\$4 and continuous\$4   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/05 07:25 |
| S11 | 1      | "5673382".PN.   | USPAT;<br>USOCR   | OR | ON | 2006/07/05 11:32 |
| S12 | 1      | "6148412".PN.   | USPAT;<br>USOCR   | OR | ON | 2006/07/05 11:35 |
| S13 | 1      | "6166784".PN.   | USPAT;<br>USOCR   | OR | ON | 2006/07/05 11:36 |
| S14 | 1      | "6266784".PN.   | USPAT;<br>USOCR   | OR | ON | 2006/07/05 11:37 |
| S15 | 1      | "6166784".PN.   | USPAT;<br>USOCR   | OR | ON | 2006/07/05 11:47 |
| S16 | 1      | "6393516".PN.   | USPAT;<br>USOCR   | OR | ON | 2006/07/05 11:47 |

## EAST Search History

|     |        |   |   |    |    |                  |
|-----|--------|---|---|----|----|------------------|
| S17 | 1      | "6266784".PN.   | USPAT;<br>USOCR   | OR | ON | 2006/07/05 11:47 |
| S18 | 1      | "6266784".PN.   | USPAT;<br>USOCR   | OR | ON | 2006/07/05 11:47 |
| S19 | 1      | "6393516".PN.   | USPAT;<br>USOCR   | OR | ON | 2006/07/05 11:47 |
| S20 | 1      | "20040088382".PN.   | US-PGPUB  | OR | ON | 2006/07/05 11:47 |
| S21 | 1      | "20040123029".PN.   | US-PGPUB  | OR | ON | 2006/07/05 11:56 |
| S22 | 1      | "20050010529".PN.   | US-PGPUB  | OR | ON | 2006/07/05 12:01 |
| S23 | 181    | (stager-roger\$ or trimmer-donald\$ or saxena-pawan\$ or johnson-randall\$ or johnston-craig\$ or chang-yafen\$ or blaser-rico\$).in. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/05 12:12 |
| S24 | 919    | (714/2).cccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/05 12:42 |
| S25 | 2394   | (primary or second\$4 or master or backup or back-up or (back adj up) or mirror or redundan\$3 or double) with snapshot               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/05 13:09 |
| S26 | 138486 | (a adj point adj in adj time) or PIT or APIT or (point adj in adj time)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/05 12:42 |
| S27 | 54     | S25 and S26   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/05 12:42 |
| S28 | 2      | S27 and S24   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/05 12:43 |

## EAST Search History

|     |     |  |   |    |    |                  |
|-----|-----|--|---|----|----|------------------|
| S29 | 20  | S27 and recover\$4 and continuous\$4   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/05 12:44 |
| S30 | 31  | S27 not (S23 or S29)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/05 12:44 |
| S31 | 36  | S27 and map\$4   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/05 13:09 |
| S32 | 21  | S31 and recover\$4   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/05 13:09 |
| S33 | 0   | S32 not (S29 or S30)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/05 14:35 |
| S34 | 590 | (duplicat\$3 or double) adj write  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/03 11:06 |
| S35 | 6   | (mapp\$3 or mirror or redundan\$3 or double) same (primary or second\$4 or first or backup or back-up) same volumn | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/03 10:54 |
| S36 | 368 | S34 same (mapp\$3 or mirror or redundan\$3 or double)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/06 15:38 |

## EAST Search History

|     |        |   |   |    |    |                  |
|-----|--------|---|---|----|----|------------------|
| S37 | 2      | S36 same rewind\$4  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/06 15:39 |
| S38 | 2402   | (primary or second\$4 or master or backup or back-up or (back adj up) or mirror or redundan\$3 or double) with snapshot | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/06 15:39 |
| S39 | 138555 | (a adj point adj in adj time) or PIT or APIT or (point adj in adj time)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/06 15:39 |
| S40 | 6      | S36 and S38 and S39   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/06 15:41 |
| S41 | 687    | (714/42).ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/06 15:42 |
| S42 | 941    | (714/5).ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/06 15:42 |
| S43 | 429    | (714/8).ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/06 15:43 |
| S44 | 110    | delta adj map\$4  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/06 15:44 |

## EAST Search History

|     |      |   |   |    |     |                  |
|-----|------|---|---|----|-----|------------------|
| S45 | 6    | S44 and S38 and S39   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/07/07 09:08 |
| S46 | 2    | ("20050010529").PN.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/07/07 09:08 |
| S47 | 171  | ("20020016827" "20020026595" "20020144057" "20020166079" "20030004980" "20030037211" "20030120676" "20030188208" "20040015731" "20040181707" "20050010529" "20050063374" "20050065962" "20050066118" "20050066222" "20050066225" "20050076261" "20050076262" "20050076264" "20060047895" "20060047902" "20060047903" "20060047925" "20060047989" "20060047998" "20060047999" "4635145" "4775969" "5438674" "5455926" "5666538" "5673382" "5774292" "5774715" "5805864" "5809511" "5809543" "5854720" "5872669" "5911779" "5949970" "5961613" "5963971" "6021408" "6023709" "6029179" "6041329" "6044442" "6049848" "6061309" "6070224" "6098148" "6128698" "6131142" "6163856" "6173359" "6195730" "6225709" "6247096" "6260110" "6266784" "6269423" "6269431" "6282609" "6289425" "6304880" "6317814" "6324497" "6327418" "6336163" "6336173" "6339778" "6341329" "6343342" "6353837" "6360232" "6389503" "6408359" "6487561" "6499026" "6557089" "6725331" "6779057" "6779058" "6779081" "6816941" "6816942" "6931557" "6950263" "7032126").PN. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/01/03 10:52 |
| S48 | 9435 | (mapp\$3 or mirror or redundan\$3 or double) same (data adj structure)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/01/03 10:54 |

## EAST Search History

|     |        |  |   |    |    |                  |
|-----|--------|--|---|----|----|------------------|
| S49 | 142542 | (a adj point adj in adj time) or PIT or APIT or (point adj in adj time)                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/03 10:56 |
| S50 | 4      | (rewound or rewind\$3) near3 (S49 or (any adj point adj in adj time) or "any point in time") | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/03 10:59 |
| S51 | 3      | S48 same S49   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/03 11:00 |
| S52 | 4221   | (duplicat\$3 or double) near2 writ\$3  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/03 11:13 |
| S53 | 10222  | continuous\$4 near3 protect\$3   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/03 11:07 |
| S54 | 111    | S48 and S49  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/03 11:07 |
| S55 | 7      | S54 and S52  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/03 11:08 |
| S56 | 2      | S54 and S53  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/03 11:09 |



## EAST Search History

|     |      |  |   |    |    |                  |
|-----|------|--|---|----|----|------------------|
| S57 | 0    | S54 and S47  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/03 11:09 |
| S58 | 6691 | (duplicat\$3 or replicat\$3 or mirror\$3<br>or double) near2 writ\$3 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/03 11:13 |
| S59 | 743  | (714/42).ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/03 11:24 |
| S60 | 982  | (714/15).ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/03 11:27 |
| S61 | 2749 | (707/200).ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/10 22:38 |
| S62 | 1112 | (707/202).ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/03 11:25 |
| S63 | 1791 | (707/204).ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/03 11:25 |
| S64 | 2    | S54 and (S59 or S60)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/03 11:33 |

## EAST Search History

|     |     |                             |   |    |     |                  |
|-----|-----|-----------------------------|---|----|-----|------------------|
| S65 | 691 | (714/7).ccls.               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/01/03 11:27 |
| S66 | 551 | (714/13).ccls.              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/01/03 11:27 |
| S67 | 982 | (714/15).ccls.              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/01/03 11:27 |
| S68 | 1   | S54 and (S65 or S66 or S67) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/01/03 11:35 |
| S69 | 3   | S54 and (S61 or S62 or S63) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/01/03 11:57 |
| S70 | 2   | ("6785848").PN.             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/01/03 13:13 |

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1 [The relational model for database management: version 2](#)

E. F. Codd

January 1990 Book

**Publisher:** Addison-Wesley Longman Publishing Co., Inc.

Full text available: pdf(28.61 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

**From the Preface (See Front Matter for full Preface)**

An important adjunct to precision is a sound theoretical foundation. The relational model is solidly based on two parts of mathematics: firstorder predicate logic and the theory of relations. This book, however, does not dwell on the theoretical foundations, but rather on all the features of the relational model that I now perceive as important for database users, and therefore for DBMS vendors. My perceptions result from 20 y ...

2 [TRAP-Array: A Disk Array Architecture Providing Timely Recovery to Any Point-in-time](#)

Qing Yang, Weijun Xiao, Jin Ren

May 2006 **ACM SIGARCH Computer Architecture News , Proceedings of the 33rd annual international symposium on Computer Architecture ISCA '06**, Volume 34 Issue 2

**Publisher:** IEEE Computer Society, ACM Press

Full text available: pdf(379.07 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

RAID architectures have been used for more than two decades to recover data upon disk failures. Disk failure is just one of the many causes of damaged data. Data can be damaged by virus attacks, user errors, defective software/firmware, hardware faults, and site failures. The risk of these types of data damage is far greater than disk failure with today's mature disk technology and networked information services. It has therefore become increasingly important for today's disk array to be able to ...

3 [The multics system: an examination of its structure](#)

Elliott I. Organick

January 1972 Book

**Publisher:** MIT Press

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### 1 [The relational model for database management: version 2](#)

E. F. Codd

January 1990 Book

**Publisher:** Addison-Wesley Longman Publishing Co., Inc.

 Full text available: [pdf\(28.61 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

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### 2 [TRAP-Array: A Disk Array Architecture Providing Timely Recovery to Any Point-in-time](#)



Qing Yang, Weijun Xiao, Jin Ren

 May 2006 **ACM SIGARCH Computer Architecture News , Proceedings of the 33rd annual international symposium on Computer Architecture ISCA '06**, Volume 34 Issue 2

**Publisher:** IEEE Computer Society, ACM Press

 Full text available: [pdf\(379.07 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

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### 3 [The multics system: an examination of its structure](#)

Elliott I. Organick

January 1972 Book

**Publisher:** MIT Press

 Full text available: [pdf\(23.94 MB\)](#)

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